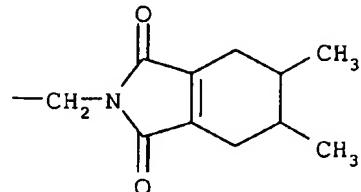
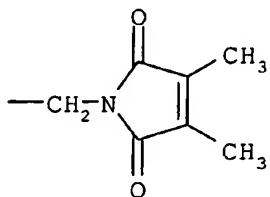


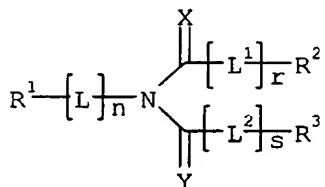
[CLAIMS]

1. A polymer comprising a phenolic monomeric unit of which the
 5 phenyl group is substituted by a group A characterised in that
 the group A comprises an imide or thioimide group,
 with the exception that A is not



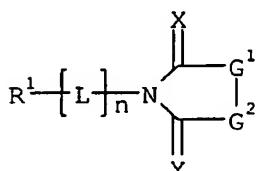
or

10 2. A polymer according to claim 1 wherein the group A has the
 following formula



wherein X and Y are independently selected from O or S,
 wherein L, L^1 and L^2 are independently a linking group,
 15 wherein n, r and s are independently 0 or 1,
 and wherein one of the groups R^1 , R^2 or R^3 represents the phenolic
 monomeric unit and the other two represent a terminal group.

3. A polymer according to claim 1 wherein the group A has the
 following formula



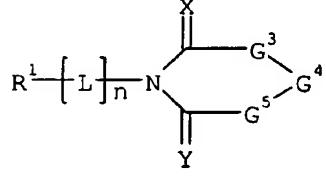
20

wherein X and Y are independently selected from O or S,

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wherein G^1 and G^2 are independently selected from O, S, NR⁴ or R⁵-[L³]_t-C-[L⁴]_u-R⁶, with the limitation that G^1 is not O or S when G^2 is O and that G^1 is not O or S when G^2 is NR⁴, wherein L, L³ and L⁴ are independently a linking group, wherein n, t and u are independently 0 or 1, and wherein one of the groups selected from R¹, R⁴, R⁵ or R⁶ represents the phenolic monomeric unit and the remaining groups represent a terminal group.

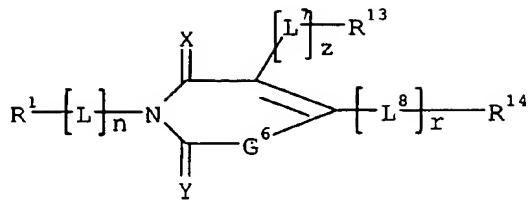
4. A polymer according to claim 1 wherein the group A has the following formula



wherein X and Y are independently selected from O or S, wherein G³ to G⁵ are independently selected from O, S, NR⁷ or R⁸-[L⁵]_v-C-[L⁶]_w-R⁹ with the limitation that at least one group, selected from G³ to G⁵, is R⁸-[L⁵]_v-C-[L⁶]_w-R⁹ and that two neighbouring groups, selected from G³ to G⁵, are not represented by O and S, by O and NR⁷, by S and NR⁷ or by O and O, wherein L, L⁵ and L⁶ are independently a linking group, wherein n, v and w are independently 0 or 1, and wherein one of the groups selected from R¹, R⁷, R⁸ or R⁹ represents the phenolic monomeric unit and the remaining groups represent a terminal group.

5. A polymer according to claim 1 wherein the group A has the following formula

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wherein X and Y are independently selected from O or S,

wherein G⁶ is a group selected from O, S, NR¹⁰ or

R¹¹-[L⁹]_x-C-[L¹⁰]_y-R¹²,

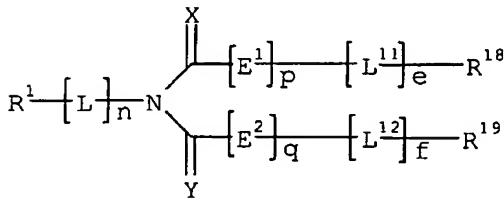
5 wherein L, L⁷, L⁸, L⁹ and L¹⁰ are independently a linking group,

wherein n, x, y, z and r are independently 0 or 1,

and wherein one of the groups selected from R¹, R¹⁰, R¹¹, R¹², R¹³

and R¹⁴ represents the phenolic monomeric unit and the remaining groups represent a terminal group.

10 6. A polymer according to claim 1 wherein the group A has the following formula



wherein X and Y are independently selected from O or S,

wherein E¹ and E² are independently selected from O, S, NR¹⁵ or

R¹⁶-[L¹³]_g-C-[L¹⁴]_h-R¹⁷,

wherein n, e, f, g, h, p and q are independently 0 or 1,

wherein e is 0 when E¹ is represented by O, S or NR¹⁵,

wherein f is 0 when E² is represented by O, S or NR¹⁵,

wherein L, L¹¹, L¹², L¹³ and L¹⁴ are independently a linking group,

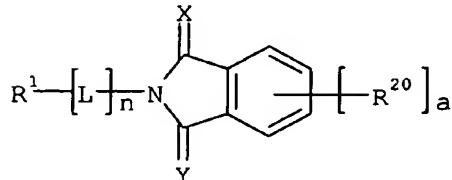
20 and wherein one of the groups selected from R¹, R¹⁵, R¹⁶, R¹⁷, R¹⁸

and wherein one of the groups selected from R¹, R¹⁵, R¹⁶, R¹⁷, R¹⁸

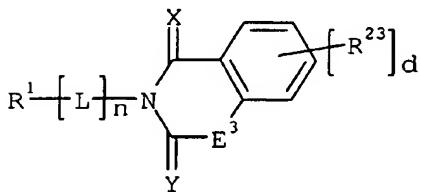
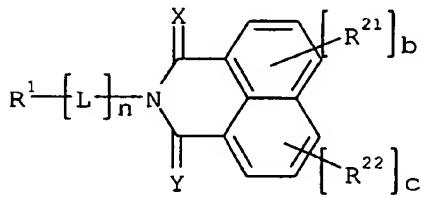
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and R^{19} represents the phenolic monomeric unit and the remaining groups represent a terminal group.

7. A polymer according to claim 1 wherein the group A has one of the following formula



5



wherein X and Y are independently selected from O or S,
 wherein each R^1 , R^{20} to R^{23} are a terminal group, independently
 selected from hydrogen, an optionally substituted alkyl, alkenyl,
 alkynyl, cycloalkyl, heterocyclic, aryl, heteroaryl, aralkyl or
 heteroaralkyl group, halogen, $-SO_2-NH-R^{24}$, $-NH-SO_2-R^{27}$,
 $-CO-NR^{24}-R^{25}$, $-NR^{24}-CO-R^{27}$, $-NR^{24}-CO-NR^{25}-R^{26}$, $-NR^{24}-CS-NR^{25}-R^{26}$,
 $-NR^{24}-CO-O-R^{25}$, $-O-CO-NR^{24}-R^{25}$, $-O-CO-R^{27}$, $-CO-O-R^{24}$, $-CO-R^{24}$,
 $-SO_3-R^{24}$, $-O-SO_2-R^{27}$, $-SO_2-R^{24}$, $-SO-R^{27}$, $-P(=O)(-O-R^{24})(-O-R^{25})$,
 $-O-P(=O)(-O-R^{24})(-O-R^{25})$, $-NR^{24}-R^{25}$, $-O-R^{24}$, $-S-R^{24}$, $-CN$, $-NO_2$,
 $-N(-CO-R^{24})(-CO-R^{25})$, $-N$ -phthalimidyl, $-M-N$ -phthalimidyl, or
 $-M-R^{24}$, wherein M represents a divalent linking group containing 1

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to 8 carbon atoms,

wherein R²⁴ to R²⁶ are independently selected from hydrogen or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, heterocyclic, aryl, heteroaryl, aralkyl or heteroaralkyl group,

5 wherein R²⁷ is selected from an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, heterocyclic, aryl, heteroaryl, aralkyl or heteroaralkyl group,

wherein a and d are independently 0, 1, 2, 3 or 4,

wherein b and c are independently 0, 1, 2 or 3,

10 wherein E³ is selected from O, S, NR²⁸ or R²⁹-[L¹⁵]_i-C-[L¹⁶]_j-R³⁰,

wherein L, L¹⁵ and L¹⁶ are independently a linking group,

wherein n, i and j independently are 0 or 1,

and wherein one of the groups selected from R¹, R²⁰, R²¹, R²²,

23 R²⁸, R²⁹ and R³⁰ represents the phenolic monomeric unit and

15 the remaining groups represent a terminal group.

8. A polymer according to any of the preceding claims, wherein said polymer comprising a phenolic monomeric unit is a novolac, resol or polyvinylphenol.

9. A heat-sensitive lithographic printing plate precursor comprising
20 a support having a hydrophilic surface and an oleophilic coating, provided on the hydrophilic surface, said coating comprising an infrared light absorbing agent and a polymer according to any of the preceding claims.

10. A lithographic printing plate precursor according to claim 9,
25 wherein said coating further comprises a dissolution inhibitor and wherein said precursor is a positive working lithographic printing plate precursor.

11. A lithographic printing plate precursor according to claim 10,
wherein said dissolution inhibitor is selected from

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- an organic compound which comprises at least one aromatic group and a hydrogen bonding site, and/or
- a polymer or surfactant comprising siloxane or perfluoroalkyl units.

5 12. Use of a polymer, according to any of the claims 1 to 8, in a coating of a positive working heat-sensitive lithographic printing plate precursor, further comprising

- an infrared absorbing agent and
- a dissolution inhibitor,

10 for increasing the chemical resistance of the coating against printing liquids and press chemicals.

13. A lithographic printing plate precursor according to claim 9, wherein said coating further comprising a latent Brönsted acid and an acid-crosslinkable compound and wherein said precursor is 15 a negative working lithographic printing plate precursor.

14. Use of a polymer, according to any of the claims 1 to 8, in a coating of a negative working heat-sensitive lithographic printing plate precursor, further comprising

- an infrared absorbing agent,
- a latent Brönsted acid and
- an acid-crosslinkable compound,

20 for increasing the chemical resistance of the coating against printing liquids and press chemicals.

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